

FIGURE 1

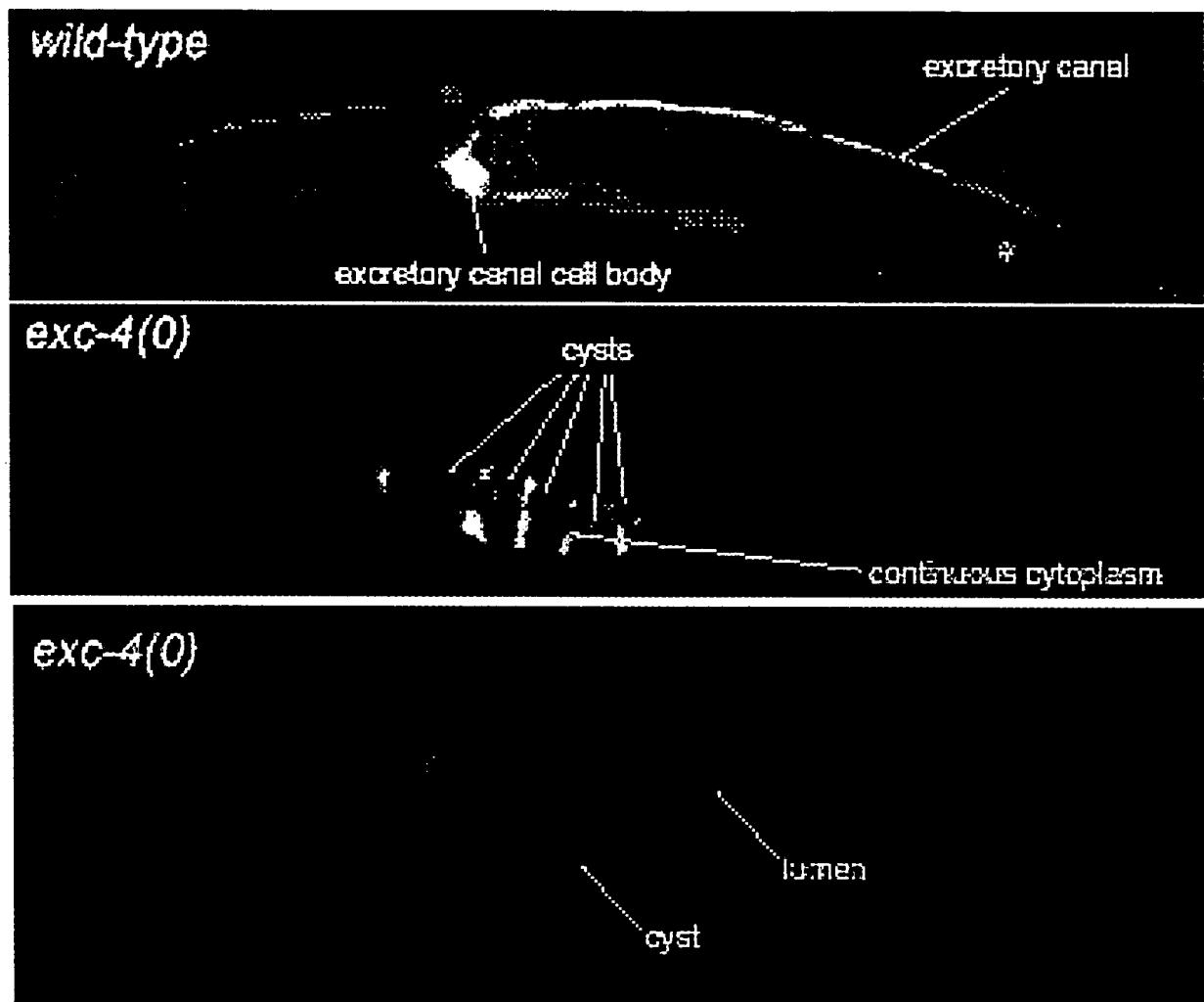


FIGURE 2

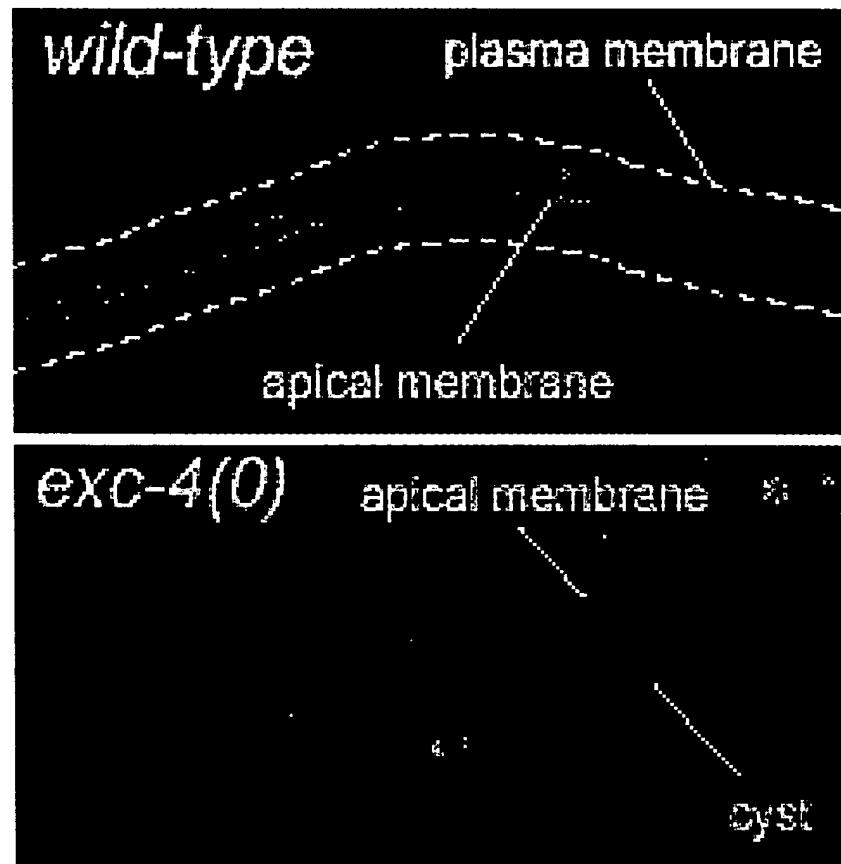


FIGURE 3

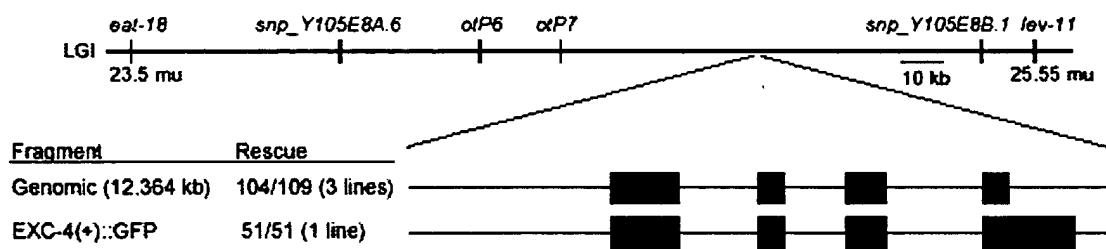


FIGURE 4

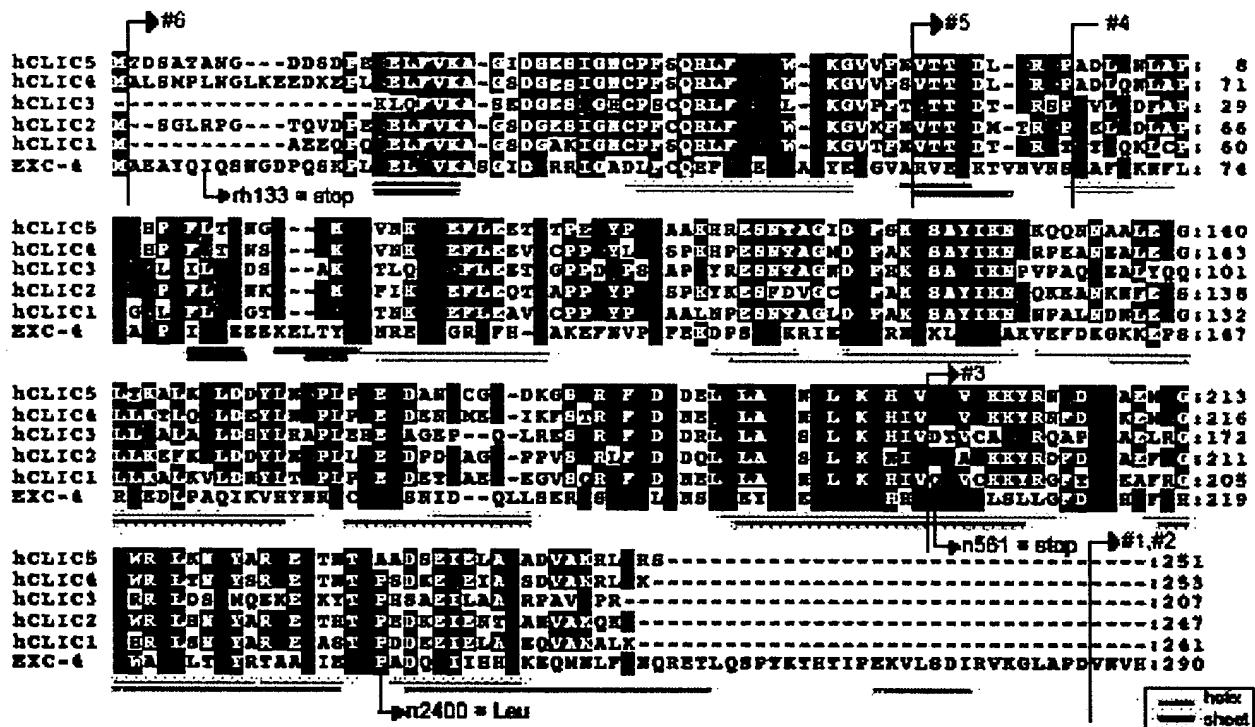


FIGURE 5

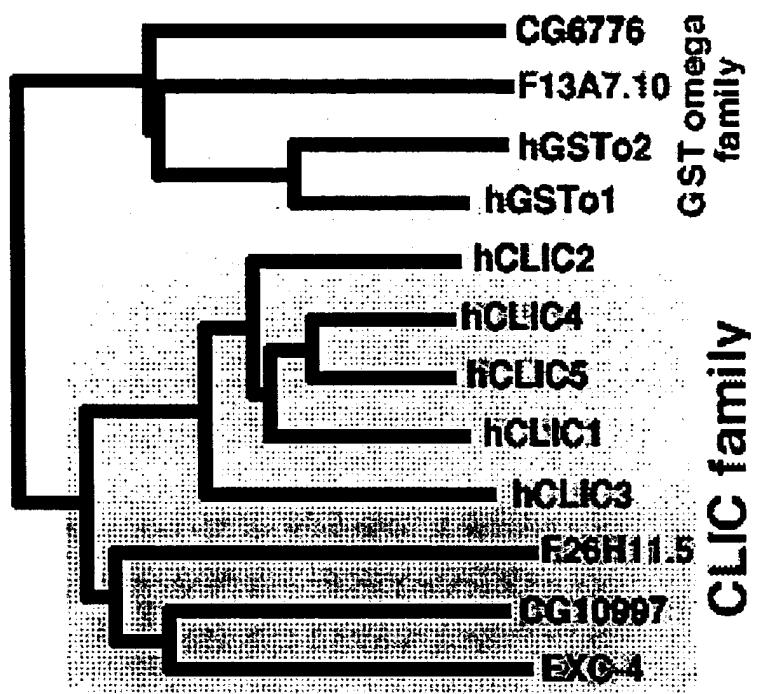


FIGURE 6

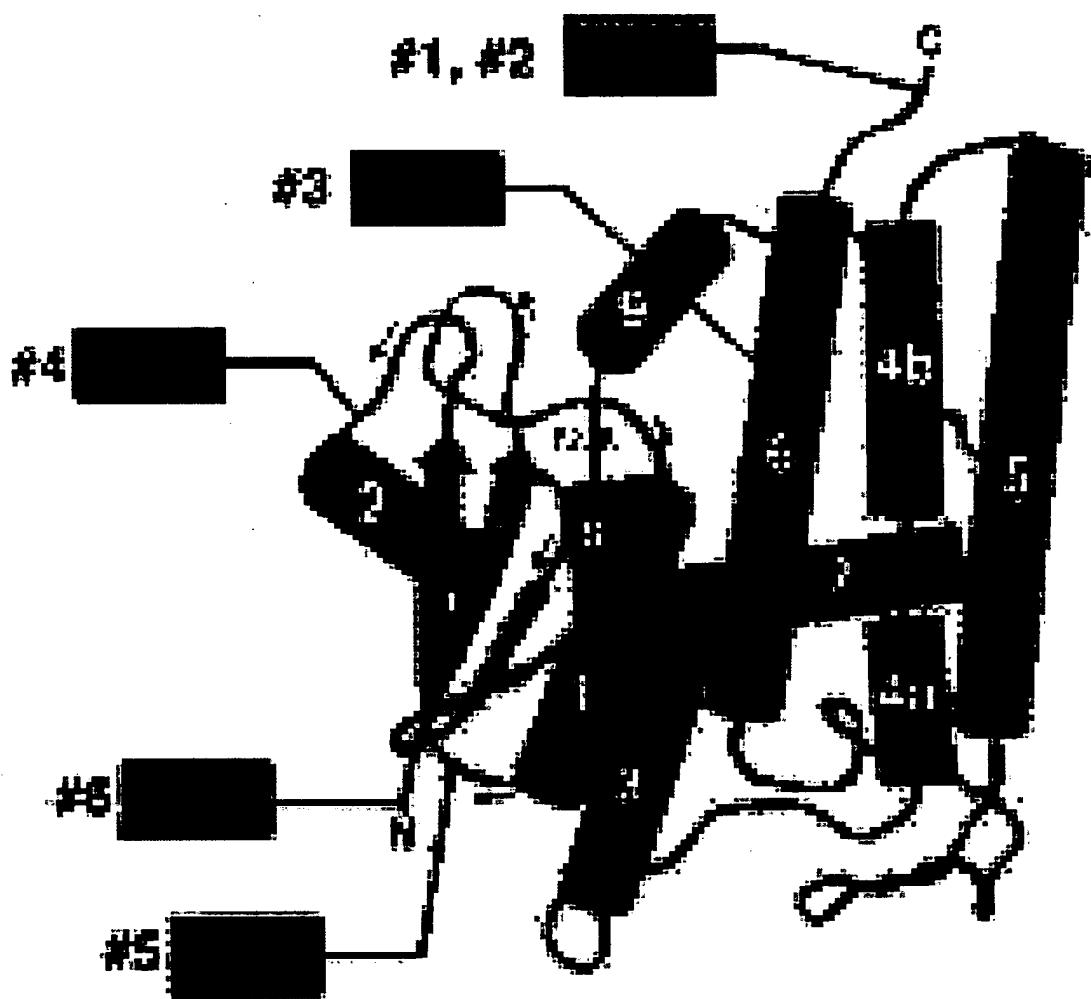


FIGURE 7

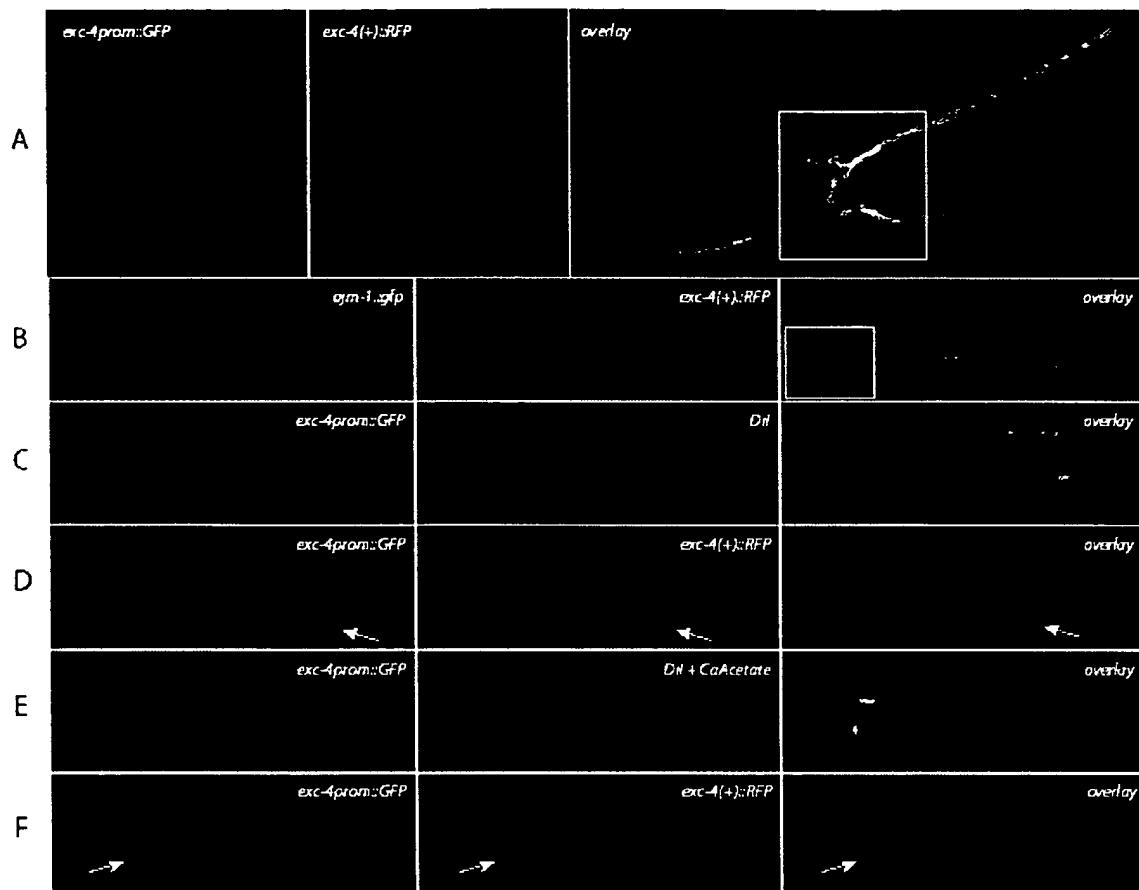
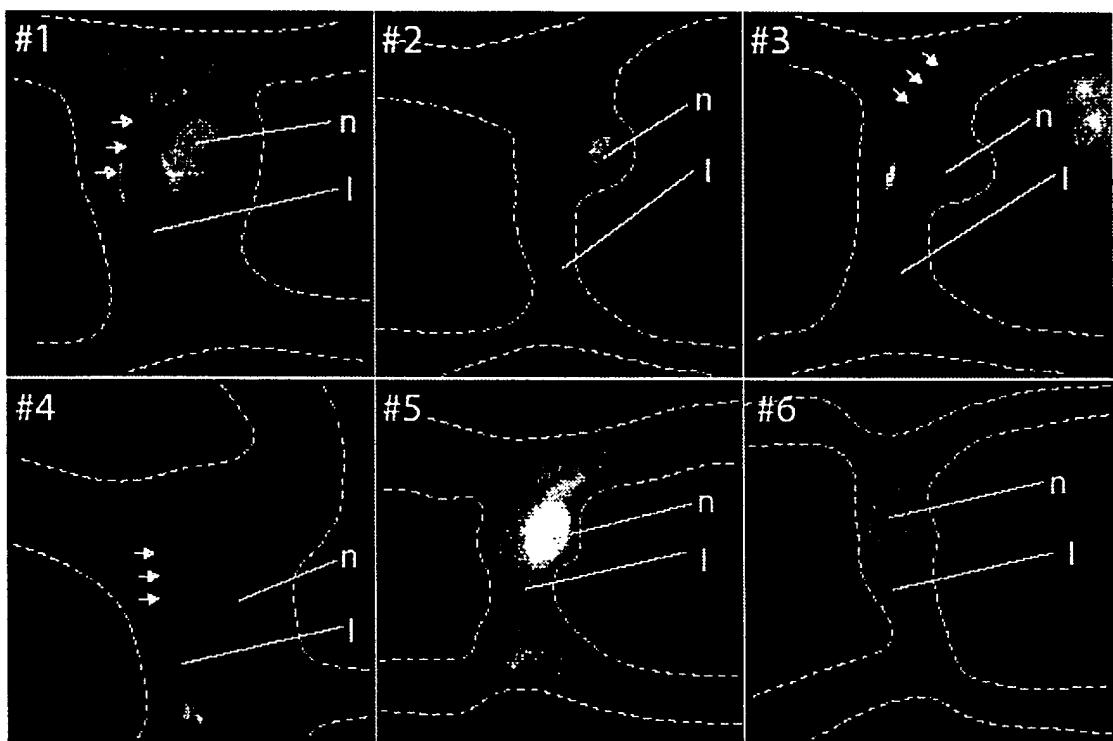


FIGURE 8

A

N	NAME	LOCALIZATION	GFP FUSION CONSTRUCT
#1	<i>exc-4prom::exc-4(+)::GFP</i>	apical	
#2	<i>exc-4prom::exc-4(P238L)::GFP</i>	cytoplasmic	
#3	<i>exc-4prom::exc-4(R202Stop)::GFP</i>	apical	
#4	<i>exc-4prom::exc-4(PTM)::GFP</i>	apical	
#5	<i>exc-4prom::exc-4(TTM)::GFP</i>	mixed	
#6	<i>exc-4prom::GFP</i>	cytoplasmic	

B**FIGURE 9**

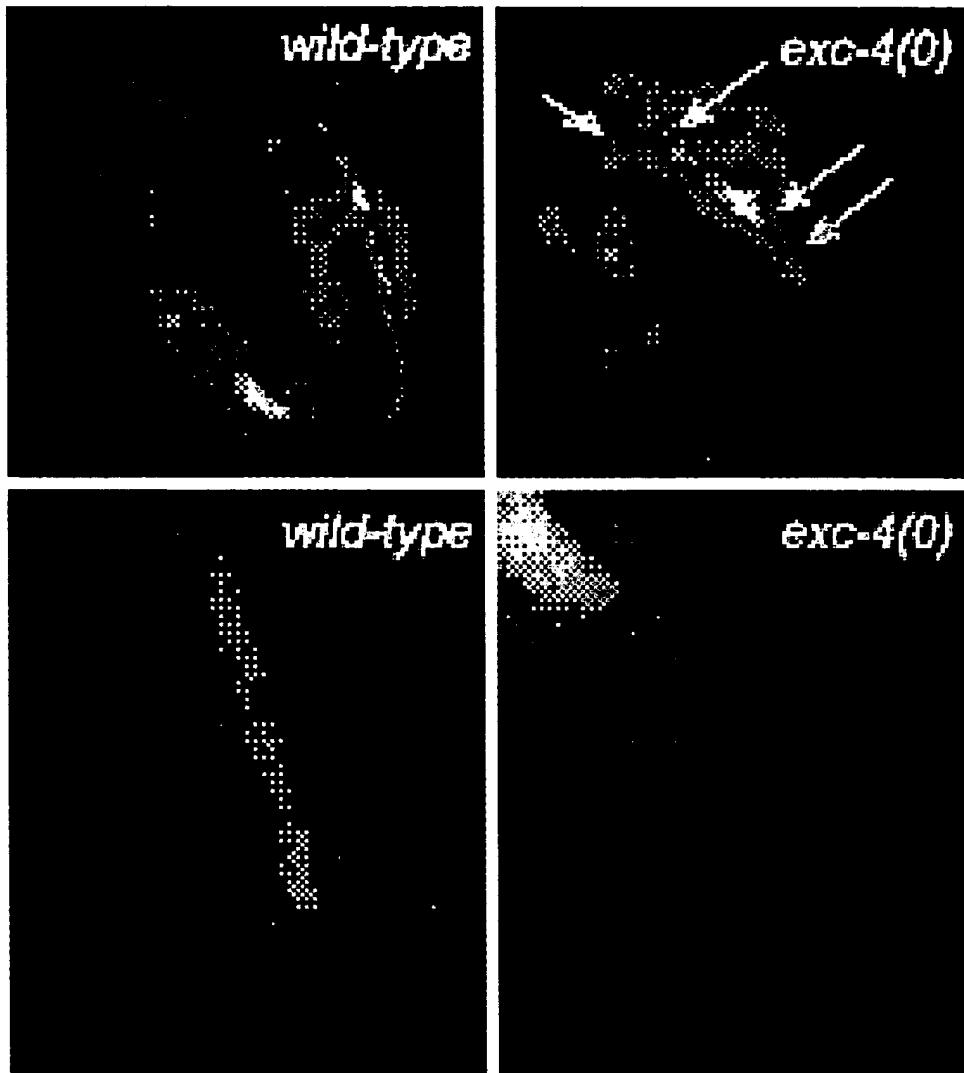


FIGURE 10

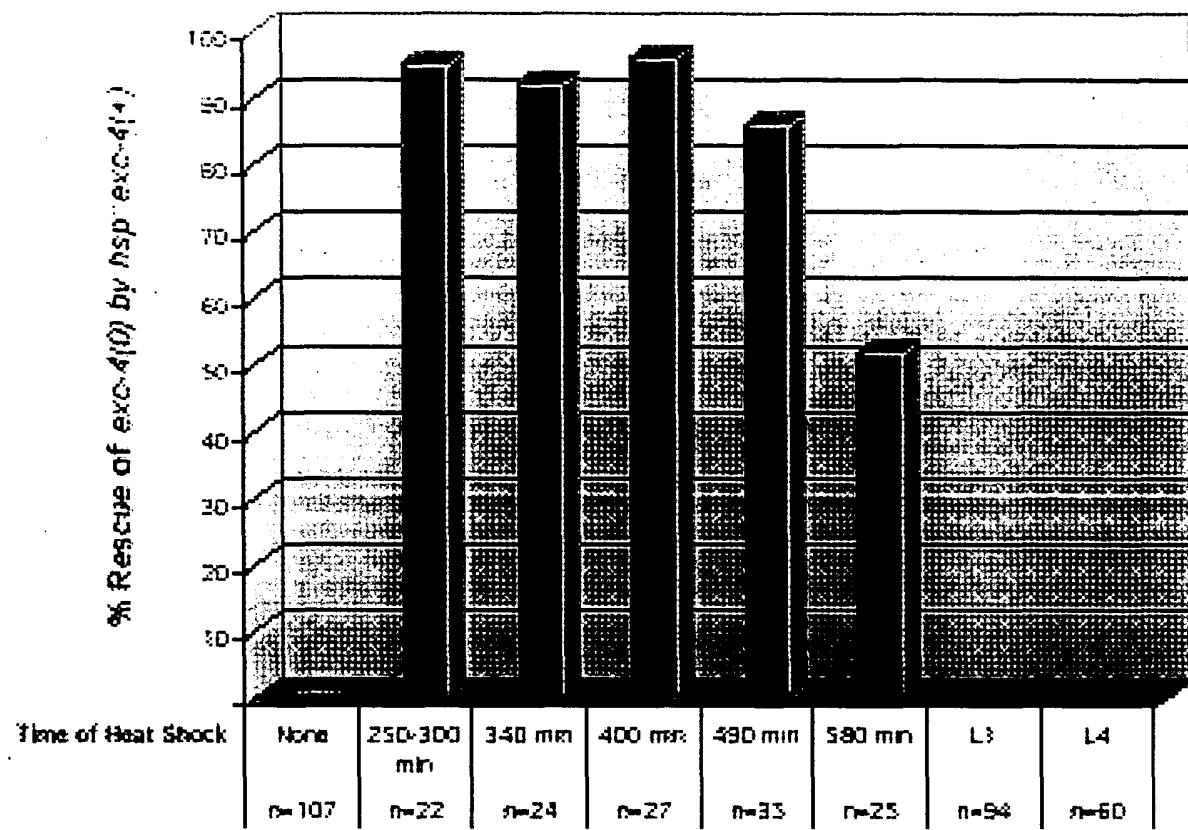


FIGURE 11

Stage	<i>exc-4(+)</i> Embryos				<i>exc-4(+)</i> Larvae				
	400'	480'	500'	550'	0hr	0hr	2hr	4hr	4hr
ER	+	++	+++	+++	++	++	++	+	+
Golgi (GO)	+	++	++	++	+++	+++	+	+	+
Vacuole (TU)	-	++	++	-	-	-	-	-	-
Lumen (TU)	-	-	-	+	++	++	++	++	++
Canaliculi (CI)	-	-	-	+/-	++	++	+++	++	++
ER,GO / TU,CI	NA	5:1	4:1	4:1	1:1	1:1	1:2	1:3	1:4

FIGURE 12

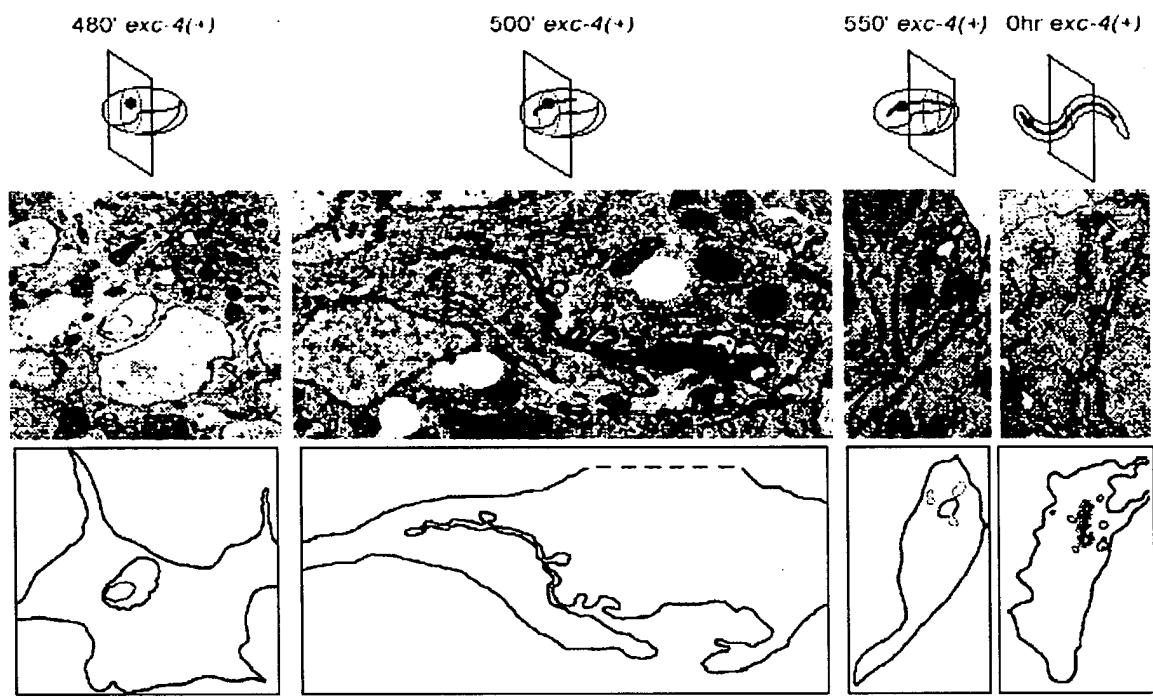
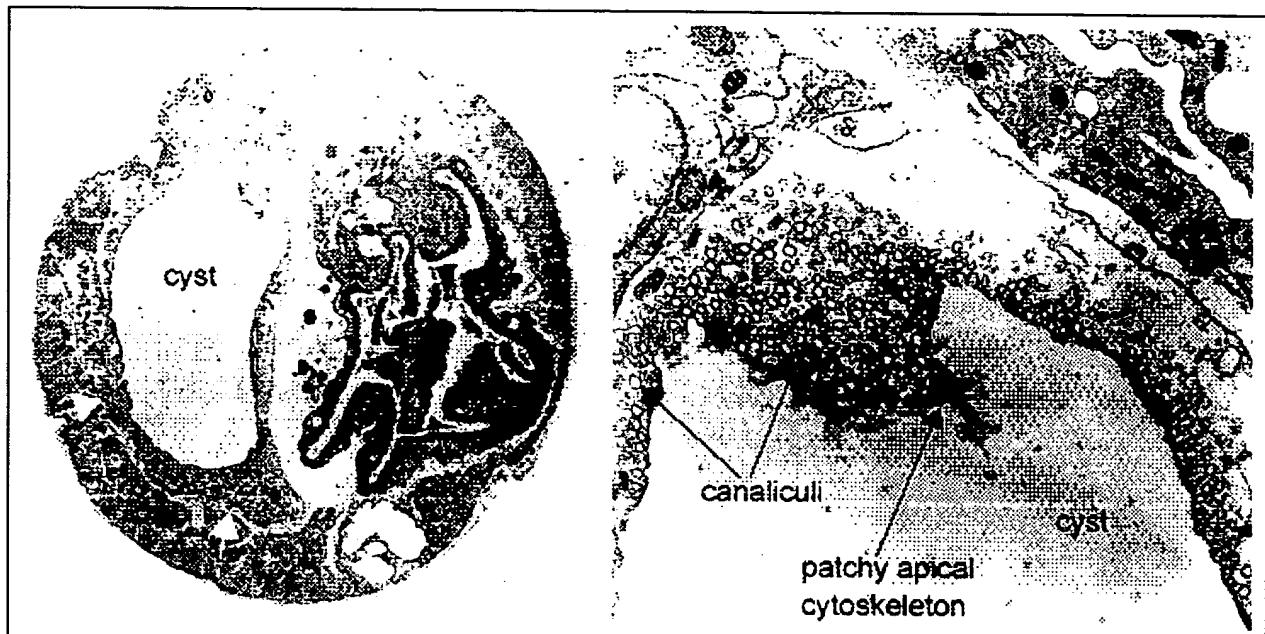


FIGURE 13



A

B

FIGURE 14